Quizz 4 - DB & ActiveRecord	Full name
Q1 - What's a relational database?	
Q2 - What are the different "table relationships" you kno	ow?
Q3 - Consider this e-library service. An author, defined I	
defined by its title and publishing year, has one au scheme. Please draw it!	thor only. What's this simple database
Q4 - A user, defined by his email, can read several b	ooks. A book (e-book!!) can be read by
several user. We also want to keep track of reading d with relevant tables and relationships.	ates. Improve your e-library DB scheme
.	
Q5 - What's the language to make queries to a databas	e?
O6 What's the simple quary to get books written before	0 10052
Q6 - What's the simple query to get books written before	= 1900 :
Q7 - What's the simple query to get 3 last books written	by Jules Verne?

Q9 - What's a migration? How do you run a migration?	

Q10 - Complete migrations to create your e-library database.

```ruby class CreateBooks < ActiveRecord::Migration def up create\_table :books do Itl end end end ``````ruby class CreateAuthors < ActiveRecord::Migration def change end end `````ruby class CreateUsers < ActiveRecord::Migration def change end end ```

Q11 - Write a migration to add a column category to the books table.  ```ruby class AddCategoryToBook < ActiveRecord::Migration def change end end ```
Q12 - Define an ActiveRecord model for each table of your DB. Add the ActiveRecord
associations between models.
Q13 - Complete following code using the relevant ActiveRecord methods.
```ruby #1. Add your favorite author to the DB #2. Get all authors #3. Get author with id=8 #4. Get
author with name="Jules Verne", store it in a variable: jules #5. Get Jules Verne's books #6.
Create a new book "20000 Leagues under the Seas", it's missing in DB. # Store it in a variable:
twenty_thousand #7. Add Jules Verne as this book's author #8. Now save this book in the DB! #
The end ```
Q14 - Add validations of your choice to the `Author` class. Can we save an object in DB if its
validations do not pass?